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Degradation of Reactive Blue 19 dye in aqueous solution using iron-modified fly ash

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Abstract: Reactive Blue 19 dye in aqueous solutions was removed by heterogeneous Fenton-like process using iron-modified fly ash. Under the suitable conditions including catalyst dose of 0.6 g/L, hydrogen peroxide dose of 4 mM, pH3, the RB19 degradation efficiency can be achieved ca. 92% and 97% in 6 h and 24 h, respectively. The catalyst can be reused without the reduction of degradation performance.

Keywords: Reactive Blue 19 dye, Fly Ash.

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